

What Is Claimed Is:

Sub B1  
1. A fiberglass binder, comprising an aqueous solution of

- a) a polycarboxy polymer,
- b) a polyol,

with the amount of polycarboxy polymer and polyol in the binder being such that the ratio of equivalents of hydroxyl groups to equivalents of carboxy groups is in the range of from about 0.4/1 to 1.0/1.

2. The fiberglass binder of claim 1, wherein the molecular weight of the polycarboxy polymer is 10,000 or less.

3. The fiberglass binder of claim 2, wherein the binder further comprises a catalyst comprising an alkali metal salt of a phosphorus containing organic acid.

4. The fiberglass binder of claim 2, wherein the molecular weight of the polycarboxy polymer is about 5000 or less.

5. The fiberglass binder of claim 2, wherein the molecular weight of the fiberglass binder is about 3000 or less.

6. The fiberglass binder of claim 3, wherein the catalyst is comprised of sodium hypophosphite, sodium phosphite or mixtures thereof.

7. The fiberglass binder of claim 2, wherein the polyol is triethanolamine.

8. The fiberglass binder of claim 1, wherein the polycarboxy polymer comprises a homopolymer or copolymer of polyacrylic acid.

9. The fiberglass binder of claim 4, wherein the amount of polycarboxy polymer and polyol are such that the ratio of equivalents of hydroxyl group to equivalents of carboxy group is in the range of from about 0.6/1 to about 0.8/1.

10. The fiberglass binder of claim 9, wherein the ratio is in the range of from about 0.6/1 to about 0.75/1.

11. The fiberglass binder of claim 5, wherein the ratio of equivalents of hydroxyl group to equivalents of carboxy group is in the range of from about 0.65/1 to about 0.75/1.

12. A fiberglass binder, comprising an aqueous solution of

a polycarboxy polymer which comprises a homopolymer or copolymer of polyacrylic acid, and with the molecular weight of the polyacrylic acid being about 5000 or less,

triethanolamine, and

a catalyst comprised of sodium hypophosphite, sodium phosphite, or mixtures thereof,

with the amount of the polyacrylic acid and triethanolamine being such that the ratio of hydroxyl group to carboxyl group equivalents is in the range of from about 0.65/1 to 0.75/1.

13. The fiberglass binder of claim 12, wherein the molecular weight of the polycarboxy polymer is about 3000 or less.

14. The fiberglass binder of claim 12, wherein the molecular weight of the polycarboxy polymer is about 2000.

15. A fiberglass product comprising a mat of glass fibers containing the binder of claim 1.

16. A fiberglass product comprising a mat of glass fibers containing the binder of claim 12.

17. The fiberglass product of claim 15, wherein the product is building insulation.

18. The fiberglass product of claim 15, wherein the building insulation is insulation for the roof.

19. The fiberglass product of claim 16, wherein the product is building insulation.

20. A process for making a fiberglass fiber mat using a binder, with the binder comprising the fiberglass binder of claim 1.